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"IF" FOR THE CIVIL ENGINEER

If you can swing an axe or wield a brush hook,
Or drive a stake or drag a chain all day,
If you can scribble figgers in a notebook.
Or shoot a range pole half a mile away;
If you can sight a transit or a level
Or move a target up and down a rod,
If you fear neither man nor devil
And know yourself and trust the living God.

If you can wade a swamp or swim a river,
Nor fear the deep nor yet the dizzy heights,
If you can stand the cold without a shiver
And take the Higgin's ink to bed at night;
If you can turn a thumb screw with your finger
When every digits' like a frozen thumb,
If you can work as long as daylight lingers
And not complain and think, You're going some.

If you can run a line where you are told,
And make it stay somewhere on the map,
If you can read your notes when they are cold
And you know that contours mustn't lap;
If you can line a truss or tap a rivet
Or make a surly foreman come across;
If you can take an order as well as give it
And not make secret pity for the boss.

If you can sight through tropic heat refraction
Or toil all day beneath a blistering sun;
If you can find a sort of satisfaction
In knowing that you've got a job well done,
If you can be an eskimo and a nigger
And try to be a gentleman to boot,
If you can use a guessing stick to figure,
And know a coefficient from a root.

If your calculus and descriptive are forgotten,
And your algebra serves you just fairly well,
If your drafting and your lettering are rotten,
And our Trautwine's always handy by to tell;
If you can close a traverse without fudging
Or check a line of levels by a foot,
If you can set a slope stake just by judging
And never kick a tripod with your foot.

If you can't boast a college education
Or, if you've got a sheepskin, can forget;
If you can get a living wage for compensation
And give a little more than you can get,
If you can meet with triumph and disaster
And treat them without favor nor with fear,
You'll be a man—and your master,
But what is more—you'll be an engineer.

—Robert Randolph.

LAMENT OF AN ENGINEER'S GIRL

Verily I say unto you, marry not an Engineer
For the Engineer is a strange being and possessed
of many devils;

Yea, he speaketh eternally in parables, which he
calleth "formulae",

And he wieldeth a big stick which he calleth a slide
rule, and he hath but one Bible—a handbook.

He talketh always of stresses and strains, and
without end of thermodynamics;

He showeth always a serious aspect and seemeth
to know not how to smile;

And he picketh his seat in the car by the springs
therein and not by the damsel beside him.

Neither does he know a waterfall except for its
power;

Nor the sunset except that he must turn on the
light,

Nor a damsel except for her specific heat.

Always he carrieth his books with him and he en-
tertaineth his maiden with steam tables.

Verily though his damsel expecteth chocolates
when he calleth, she openeth the package to
disclose samples of iron ore.

Yea, he holdeth his damsel's hand but only to
measure the friction, and kisses but to test
the viscosity.

For in his eyes shineth a far away look which is
neither love nor longing—but a vain attempt to
recall the formula.

There is but one key dear to his heart and that is
the Tau Beta Pi key,

And one love letter for which he yearneth, and
that a "B",

And when to his damsel he writeth of love and
signeth with crosses, mistake not these sym-
bols for kisses but rather for unknown quan-
tities.

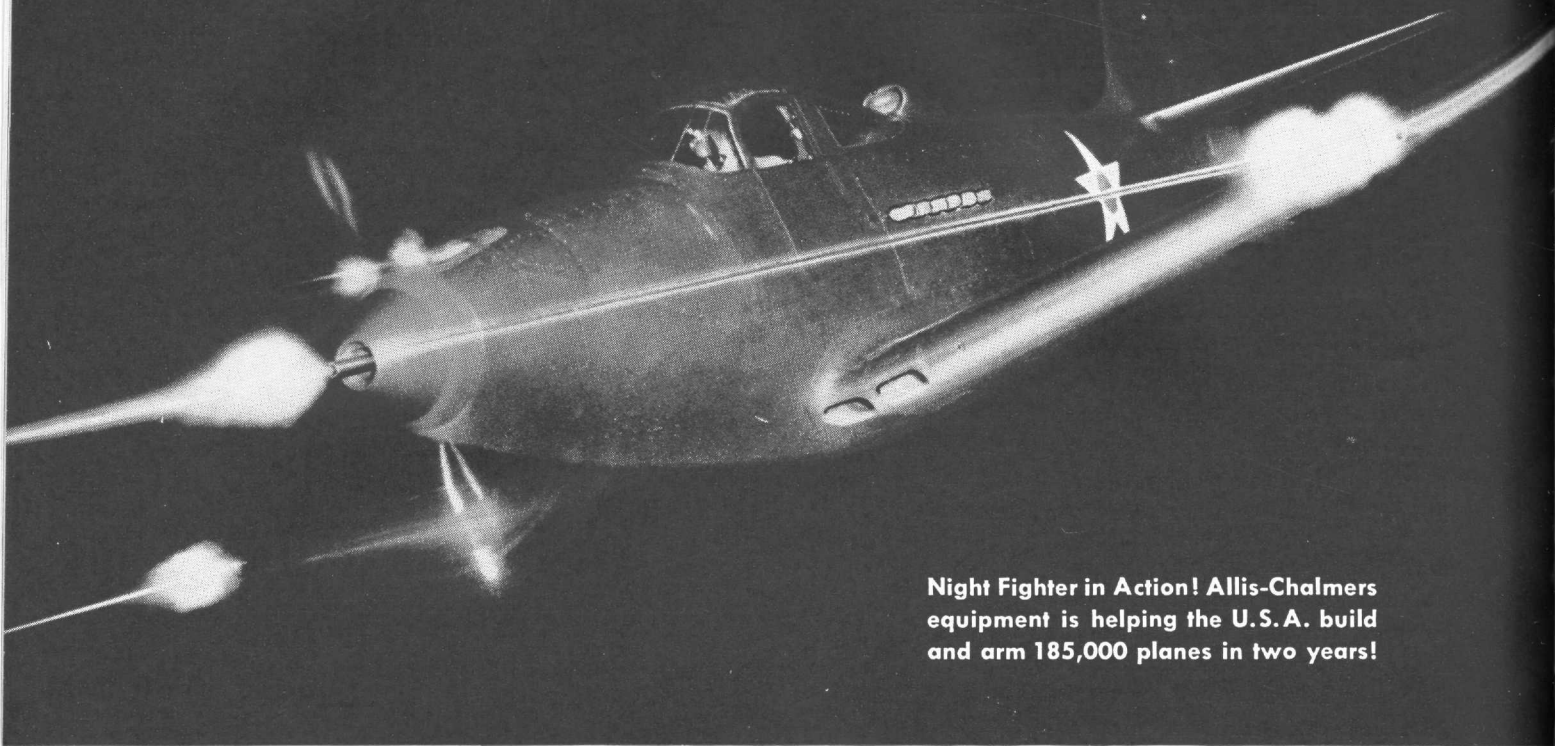
Even as a young boy he pulleth a girl's hair to
test its elasticity, but as a man he discovers
different devices.

For he would count the vibrations of her heart-
strings and reckon her strength of materials;

For he seeketh ever to pursue the scientific in-
vestigations, even his heart flutterings he
counteth as a vision of beauty and inscribeth
his passion in a formula.

And his marriage is a simultaneous equation in-
volving two unknowns and yielding diverse
answers!

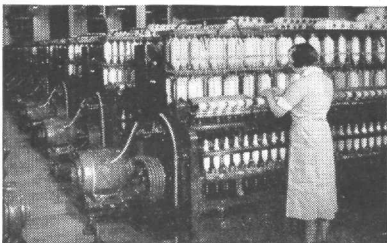
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The thousands of Allis-Chalmers employees in 8 great plants are proud that their effort aids production in *every* major U.S. industry.

And in 65 cities Allis-Chalmers engineers are on call to help you produce *more*—not just with new machines, but with machines *now on hand!* ALLIS-CHALMERS MFG. CO., MILWAUKEE, WIS.

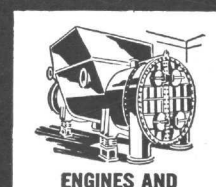
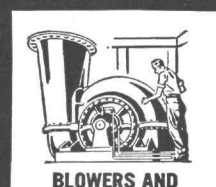
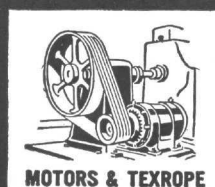


New Allis-Chalmers turbines add to U.S. Industry's growing power.



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OR WATER

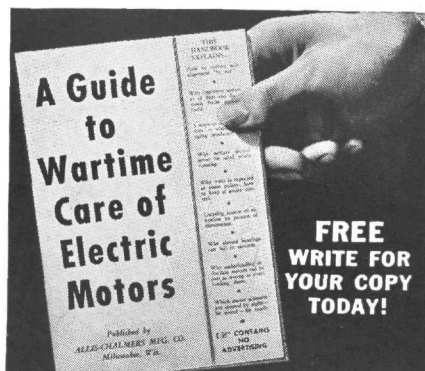


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